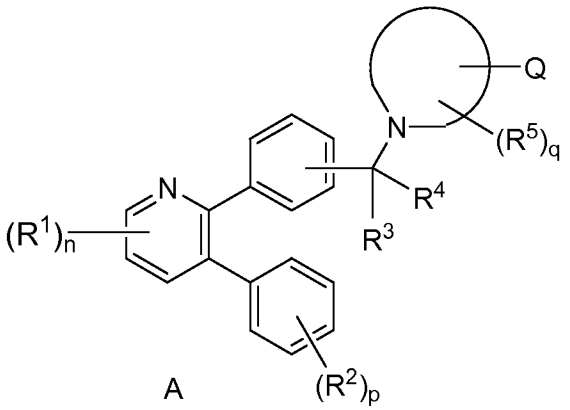
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

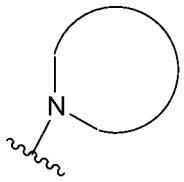
Listing of Claims

1. (previously presented) A compound of the Formula A:



wherein:

a is 0 or 1; b is 0 or 1; m is 0, 1 or 2; n is 0, 1, 2 or 3; p is 0, 1 or 2; q is 0, 1, 2 or 3; r is 0 or 1; s is 0 or 1; t is 2, 3, 4, 5 or 6;



is heterocyclyl;

Q is pyrimidinyl pyrazole optionally substituted with one to three R^z;

R^1 is independently selected from: 1) $(C=O)_aO_bC_1$-C_{10} alkyl, 2) $(C=O)_aO_b$aryl, 3) C_2-C_{10} alkenyl, 4) C_2-C_{10} alkynyl, 5) $(C=O)_aO_b$ heterocyclyl, 6) $(C=O)_aO_bC_3$-C_8 cycloalkyl, 7) CO_2H, 8) halo, 9) CN, 10) OH, 11) O_bC_1-C_6 perfluoroalkyl, 12) $O_a(C=O)_bNR^6R^7$, 13) $NR^c(C=O)_bNR^6R^7$, 14) $S(O)_mR^a$, 15) $S(O)_2NR^6R^7$, 16) $NR^cS(O)_mR^a$, 17) oxo, 18) CHO, 19) NO_2, 20) $NR^c(C=O)O_bR^a$, 21) $O(C=O)O_bC_1$-C_{10} alkyl, 22) $O(C=O)O_bC_3$-C_8 cycloalkyl, 23) $O(C=O)O_b$aryl, 24) C_1-C_6alkyl$(C=NR^b)N(R^b)_2$, 25) $O(C=O)O_b$-heterocycle, 26) O_a-$P=O(OH)_2$ and 27) $-N=CHN(R^b)_2$, said alkyl, aryl, alkenyl, alkynyl, heterocyclyl, and cycloalkyl optionally substituted with one or more substituents selected from R^z;

R^2 is independently selected from: 1) $(C=O)_aO_bC_1$-C_{10} alkyl, 2) $(C=O)_aO_b$aryl, 3) C_2-C_{10} alkenyl, 4) C_2-C_{10} alkynyl, 5) $(C=O)_aO_b$ heterocyclyl, 6) $(C=O)_aO_bC_3$-C_8 cycloalkyl, 7) CO_2H, 8) halo, 9) CN,

10) OH, 11) O_bC_1-C_6 perfluoroalkyl, 12) $O_a(C=O)_bNR^6R^7$, 13) $NR^c(C=O)NR^6R^7$, 14) $S(O)_mR^a$, 15) $S(O)_2NR^6R^7$, 16) $NR^cS(O)_mR^a$, 17) CHO, 18) NO_2, 19) $NR^c(C=O)O_bR^a$, 20) $O(C=O)O_bC_1$-C_{10} alkyl, 21) $O(C=O)O_bC_3$-C_8 cycloalkyl, 22) $O(C=O)O_b$aryl, 23) $O(C=O)O_b$-heterocycle, and 24) O_a-$P=O(OH)_2$, said alkyl, aryl, alkenyl, alkynyl, heterocyclyl, and cycloalkyl optionally substituted with one, two or three substituents selected from R^z;

R^3 and R^4 are independently selected from: H, C_1-C_6-alkyl and C_1-C_6-perfluoroalkyl, or

R^3 and R^4 are combined to form $-(CH_2)_t-$ wherein one of the carbon atoms is optionally replaced by a moiety selected from O, $S(O)_m$, $-N(R^b)C(O)-$, and $-N(COR^a)-$;

R^5 is independently selected from: 1) $(C=O)_aO_bC_1$-C_{10} alkyl, 2) $(C=O)_aO_b$aryl, 3) C_2-C_{10} alkenyl, 4) C_2-C_{10} alkynyl, 5) $(C=O)_aO_b$ heterocyclyl, 6) $(C=O)_aO_bC_3$-C_8 cycloalkyl, 7) CO_2H, 8) halo, 9) CN, 10) OH, 11) O_bC_1-C_6 perfluoroalkyl, 12) $O_a(C=O)_bNR^6R^7$, 13) $NR^c(C=O)NR^6R^7$, 14) $S(O)_mR^a$, 15) $S(O)_2NR^6R^7$, 16) $NR^cS(O)_mR^a$, 17) oxo, 18) CHO, 19) NO_2, 20) $O(C=O)O_bC_1$-C_{10} alkyl, 21) $O(C=O)O_bC_3$-C_8 cycloalkyl, and 22) O_a-$P=O(OH)_2$, said alkyl, aryl, alkenyl, alkynyl, heterocyclyl, and cycloalkyl optionally substituted with one or more substituents selected from R^z;

R^6 and R^7 are independently selected from: 1) H, 2) $(C=O)O_bR^a$, 3) C_1-C_{10} alkyl, 4) aryl, 5) C_2-C_{10} alkenyl, 6) C_2-C_{10} alkynyl, 7) heterocyclyl, 8) C_3-C_8 cycloalkyl, 9) SO_2R^a, 10) $(C=O)NR^b_2$, 11) OH, and 12) O_a-$P=O(OH)_2$, said alkyl, cycloalkyl, aryl, heterocylyl, alkenyl, and alkynyl is optionally substituted with one or more substituents selected from R^z, or

R^6 and R^7 can be taken together with the nitrogen to which they are attached to form a monocyclic or bicyclic heterocycle with 4-7 members in each ring and optionally containing, in addition to the nitrogen, one or more additional heteroatoms selected from N, O and S, said monocyclic or bicyclic heterocycle optionally substituted with one or more substituents selected from R^z;

R^z is independently selected from: 1) $(C=O)_rO_s(C_1$-$C_{10})$alkyl, 2) $O_r(C_1$-$C_3)$perfluoroalkyl, 3) $(C_0$-$C_6)$alkylene-$S(O)_mR^a$, 4) oxo, 5) OH, 6) halo, 7) CN, 8) $(C=O)_rO_s(C_2$-$C_{10})$alkenyl, 9) $(C=O)_rO_s(C_2$-$C_{10})$alkynyl, 10) $(C=O)_rO_s(C_3$-$C_6)$cycloalkyl, 11) $(C=O)_rO_s(C_0$-$C_6)$alkylene-aryl, 12) $(C=O)_rO_s(C_0$-$C_6)$alkylene-heterocyclyl, 13) $(C=O)_rO_s(C_0$-$C_6)$alkylene-$N(R^b)_2$, 14) $C(O)R^a$, 15) $(C_0$-$C_6)$alkylene-CO_2R^a, 16) C(O)H, 17) $(C_0$-$C_6)$alkylene-CO_2H, 18) $C(O)N(R^b)_2$, 19) $S(O)_mR^a$, 20) $S(O)_2N(R^b)_2$, 21) $NR^c(C=O)O_bR^a$, 22) $O(C=O)O_bC_1$-C_{10} alkyl, 23) $O(C=O)O_bC_3$-C_8 cycloalkyl, 24) $O(C=O)O_b$aryl, 25) $O(C=O)O_b$-heterocycle, and 26) O_a-$P=O(OH)_2$, said alkyl, alkenyl, alkynyl, cycloalkyl, aryl, and

heterocyclyl is optionally substituted with up to three substituents selected from R^b, OH, $(C_1\text{-}C_6)$alkoxy, halogen, CO_2H, CN, $O(C=O)C_1\text{-}C_6$ alkyl, oxo, $N(R^b)_2$ and $O_a\text{-}P=O(OH)_2$;

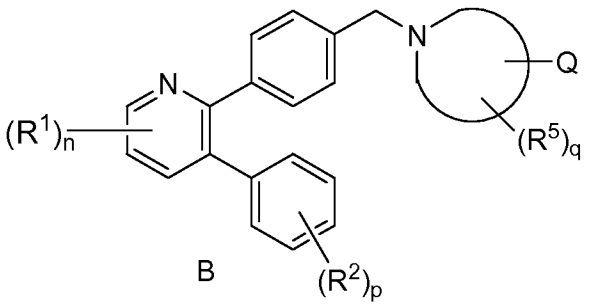
R^a is: substituted or unsubstituted $(C_1\text{-}C_6)$alkyl, substituted or unsubstituted $(C_2\text{-}C_6)$alkenyl, substituted or unsubstituted $(C_2\text{-}C_6)$alkynyl, substituted or unsubstituted $(C_3\text{-}C_6)$cycloalkyl, substituted or unsubstituted aryl, $(C_1\text{-}C_6)$perfluoroalkyl, 2,2,2-trifluoroethyl, or substituted or unsubstituted heterocyclyl; and

R^b is: H, $(C_1\text{-}C_6)$alkyl, substituted or unsubstituted aryl, substituted or unsubstituted benzyl, substituted or unsubstituted heterocyclyl, $(C_3\text{-}C_6)$cycloalkyl, $(C=O)OC_1\text{-}C_6$ alkyl, $(C=O)C_1\text{-}C_6$ alkyl or $S(O)_2R^a$;

R^c is selected from: 1) H, 2) $C_1\text{-}C_{10}$ alkyl, 3) aryl, 4) $C_2\text{-}C_{10}$ alkenyl, 5) $C_2\text{-}C_{10}$ alkynyl, 6) heterocyclyl, 7) $C_3\text{-}C_8$ cycloalkyl, and 8) $C_1\text{-}C_6$ perfluoroalkyl, said alkyl, cycloalkyl, aryl, heterocylyl, alkenyl, and alkynyl is optionally substituted with one or more substituents selected from R^z, or

or a pharmaceutically acceptable salt or a stereoisomer thereof.

2. (previously presented) The compound according to Claim 1 of the Formula B:



or a pharmaceutically acceptable salt or a stereoisomer thereof.

3. (previously presented) The compound according to Claim 2 wherein:

Q is pyrimidinyl pyrazole optionally substituted with one to three R^z;

R^a is: $(C_1\text{-}C_6)$alkyl, $(C_3\text{-}C_6)$cycloalkyl, aryl, or heterocyclyl; and

R^b is: H, $(C_1\text{-}C_6)$alkyl, aryl, heterocyclyl, $(C_3\text{-}C_6)$cycloalkyl, $(C=O)OC_1\text{-}C_6$alkyl, $(C=O)C_1\text{-}C_6$alkyl or $S(O)_2R^a$;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

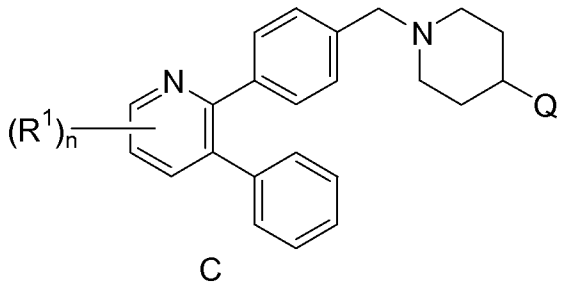
4. (original) The compound according to Claim 3 wherein:

q is 0;

R^2 is independently selected from: 1) C_1-C_6 alkyl, 2) aryl, 3) heterocyclyl, 4) CO_2H, 5) halo, 6) CN, 7) OH, 8) $S(O)_2NR^6R^7$, and 9) O_a-P=O$(OH)_2$, said alkyl, aryl and heterocyclyl optionally substituted with one, two or three substituents selected from R^z;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

5. (previously presented) The compound according to Claim 4 of the Formula C:



C

wherein:

n is 0, 1 or 2;

Q is pyrimidinyl pyrazole optionally substituted with one to three R^z;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

6. (previously presented) A compound which is selected from:

1-(1-{4-[5-(5-amino-1,3,4-thiadiazol-2-yl)-3-phenylpyridin-2-yl]benzyl}piperidin-4-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine;
1-(1-{4-[5-(1,2,4-oxadiazol-3-yl)-3-phenylpyridin-2-yl]benzyl}piperidin-4-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine;
1-(1-{4-[3-phenyl-5-(1H-1,2,4-triazol-5-yl)pyridin-2-yl]benzyl}piperidin-4-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine;
1-{1-[4-(3-phenyl-5-pyrimidin-2-ylpyridin-2-yl)benzyl]piperidin-4-yl}-1H-pyrazolo[3,4-d]pyrimidin-4-amine;

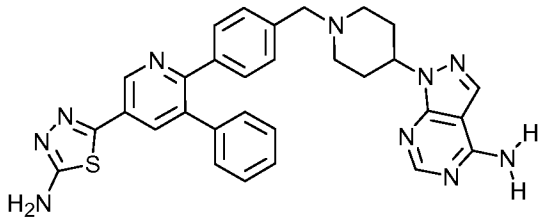
1-{1-[4-(5'-phenyl-2,3'-bipyridin-6'-yl)benzyl]piperidin-4-yl}-1H-pyrazolo[3,4-d]pyrimidin-4-amine;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

7-10. (canceled)

11. (original) A compound according to Claim 6 which is:

1-(1-{4-[5-(5-amino-1,3,4-thiadiazol-2-yl)-3-phenylpyridin-2-yl]benzyl}piperidin-4-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine:

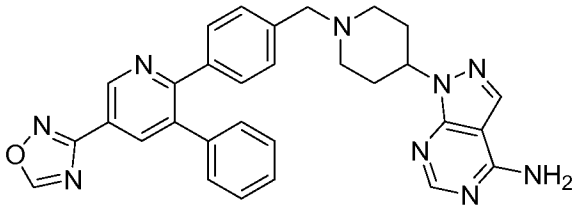


or a pharmaceutically acceptable salt or a stereoisomer thereof.

12. (canceled)

13. (original) A compound according to Claim 6 which is:

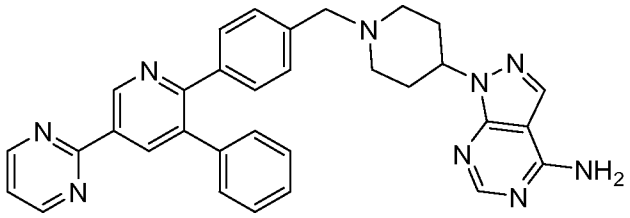
1-(1-{4-[5-(1,2,4-oxadiazol-3-yl)-3-phenylpyridin-2-yl]benzyl}piperidin-4-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine:



or a pharmaceutically acceptable salt or a stereoisomer thereof.

14. (original) A compound according to Claim 6 which is:

1-{1-[4-(3-phenyl-5-pyrimidin-2-ylpyridin-2-yl)benzyl]piperidin-4-yl}-1H-pyrazolo[3,4-d]pyrimidin-4-amine;



or a pharmaceutically acceptable salt or a stereoisomer thereof.

15. (original) A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 1.

16. (original) A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 6.

17. (currently amended) A method for treating ~~cancer~~ carcinoma which comprises administering to a mammal in need thereof a therapeutically effective amount of a compound of Claim 1.

18. (currently amended) A method for treating ~~cancer~~ carcinoma which comprises administering to a mammal in need thereof a therapeutically effective amount of a compound of Claim 6.

19-20. (canceled)